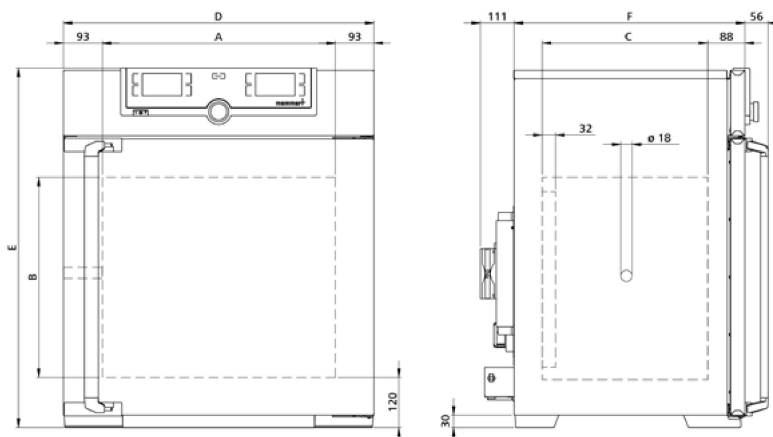## CONSTANT CLIMATE CHAMBERS HPPeco

according to DIN 12880:2007-05; EN 61010-1 (IEC 61010-1); EN 61010-2-010   Standard units are safety-approved and bear the test marks: C E

Interior:	stainless steel, mat. 1.4301 (ASTM 304), deepdrawn
Housing:	textured stainless steel 1.4016 (ASTM 430), rear zinc-plated steel 1.0037 (St37-2), intuitively operated TwinDISPLAY (TFT colour display) with touchscreen
Door:	Sizes 110 to 1060: fully insulated stainless steel doors with 2-point locking (compression door lock) and inner glass door, Sizes 1400 and 2200: stainless steel doors with glass sectors, fully heated inner glass panes integrated in the full-sight glass door with 2-point locking (compression door lock), sizes 750, 1060 and 1400 two leaves, size 2200 three leaves
Connection:	mains cable with plug (German type)
Installation:	Sizes 110 and 260: 4 adjustable appliance feet, Sizes 410 to 1060: on lockable castors, Sizes 1400 and 2200: on height-adjustable and lockable castors
Interfaces:	USB Ethernet □ LAN □

Model sizes/Description			110	260	410	750	1060	1400	2200
Stainless steel interior	Volume	l	108	256	384	749	1060	1360	2140
	Width (A) mm		560	640		1040		1250	1972
	Height (B) mm		480	800		1200		1450	
	Depth (less 32 mm for fan - Peltier) (C) mm		400	500		600	850	750	
	Max. number of grids/shelves	number	5	9		14		28	42
	Max. loading per grid/shelf	kg		20		30	60	30	
	Max. loading of chamber	kg	150		200			250	330
	Max. loading per slide-in drip tray	kg	3	4		8		-	
	Max. loading per bottom drip tray	kg	3	4		8		-	
Textured stainless steel exterior	Width (D) mm		745	824		1224		1435	2157
	Height (sizes 410, 750, 1060, 1400 and 2200 with castors) (E) mm		864	1183		1720		1913	
	Depth (without door handle, depth of handle +56 mm, +111 mm Peltier element) (F) mm		555	655		755	1005	905	
Standard equipment	Standard works calibration certificate (measuring point chamber center)	°C				+25 °C / 60 % rh, +40 °C / 75 % rh			
	Stainless steel grid, electropolished	number			2			4	6
	Water tank including connection hose					●			
	Entry port (silicone), 18 mm clear diameter, moisture tight, can be closed by silicone stopper, in the side panel, centre left					●			-
Temperature	Working temperature range without light, without humidity	°C			0 (at least 20 below ambient temperature) up to +70				
	Working temperature range without light, with humidity	°C		+5 (at least 20 below ambient temperature) up to +70				+15 (at least 10 below ambient temperature) up to +60	
	Working temperature range with light, without or with humidity	°C			+15 to +40			-	
	Setting temperature range without light, with humidity	°C			+5 to +70			+15 to +60	
	Setting temperature range with light, with humidity	°C			+5 to +70			-	
	Setting temperature range with light, without humditiy	°C			0 to +70			-	
	Setting temperature range without light, without humidity	°C				0 to +70			
	Setting accuracy	°C				0.1			

Model sizes/Description			110	260	410	750	1060	1400	2200
Humidity	Setting range humidity without light	% rh	10 to 90					10 to 80	
	Setting range humidity with light	% rh	10 to 90			-			
	Setting accuracy	% rh	0.5						
Further data	Electrical load at 230 V, 50/60 Hz	W		420		700	1400		2000
	Electrical load at 115 V, 50/60 Hz	W		420		700	1400		-
	Electrical load at 115V/230V with equipment performance option P1	W	-	700		1400	-		
	Peltier elements in the rear	number	1			2	4		6
Packing data	Net weight	kg	64	94	134	197	259	347	474
	Gross weight (packed in carton)	kg	87	133	184	263	339	525	718
	Width	mm	830	930		1330	1370	1560	2300
	Height	mm	1050	1380	1930	1910	1970	2200	
	Depth	mm	800	930		1050	1300	1190	
Order No. Constant Climate Chambers			HPP110eco	HPP260eco	HPP410eco	HPP750eco	HPP1060eco	HPP1400eco	HPP2200eco

Options		110	260	410	750	1060	1400	2200
The performance option increases the number of installed Peltier modules in size 260 and 410 from 1 to 2, and in size 750 from 2 to 4 units. This enhances performance and improves technical specifications.		-	P1			-		
Temperature restriction; Temperature: +60 °C		A8					-	
Chamber modification for the application of reinforced perforated stainless steel shelves or stainless steel grids (bearing rails mounted in the working chamber - standard with 1060) - includes replacement of standard grids by reinforced grids		-			K1		-	
Cold white 6,500 K light module: LED light strips on the side walls, 10 for model 110, 14 for model 260/410/750, programme-controlled dimming from 0 to 100 % (in 1 % increments), ramp programming in conjunction with temperature and humidity. Requires option P1 for sizes 260, 410 and 750 at an extra charge. Standard feed-through not required for sizes 110 and 260.		T7					-	
Light module cold white 6,500 K + warm white 2,700 K: LED light strips - 10 for model 110, 14 for model 260/410/750 - (alternating 5 or 7 light strips cold white and 5 or 7 light strips warm white) on the side walls, programme-controlled dimming from 0 to 100 % (in 1 % increments), ramp programming in conjunction with temperature and humidity. Requires option P1 for sizes 260, 410 and 750 at an extra charge. Standard feed-through not required for sizes 110 and 260.		T8					-	
Light module warm white 2,700 K: LED light strips on the side walls, 10 for model 110, 14 for model 260/410/750, programme-controlled dimming from 0 - 100 % (in 1 % increments), ramp programming in conjunction with temperature and humidity. Requires option P1 for sizes 260, 410 and 750 at an extra charge. Standard feed-through not required for sizes 110 and 260.		T9					-	
Interior socket (can only be ordered with limited temperature range - max. +60 °C), ampacity 230 V / 2,2A / 500W, can be switched off with the On/Off switch, cannot be switched individually, moisture tight IP68 (requires option A8 against surcharge) (max. one per appliance)		R3					-	
Entry port with 23 mm clear diameter, can be closed, standard position (F0 and F2 not for model size 260 with light module; F0 - F3 not for model size 110 with light module)	left centre/centre	F0					-	
	left centre/top	F1					-	
	right centre/centre	F2					-	
	right centre/top	F3					-	
Entry port with 23 mm clear diameter, can be closed, individual position (please state position)	left	F4						
	right	F5						
	rear	F6					-	
Entry port (silicone), 40 mm clear diameter, moisture tight, can be closed by silicone stopper, at the back (please state location)		F7					-	
Entry port (silicone), 40 mm clear diameter, moisture tight, can be closed by silicone stopper, standard position rear		D8						
4 - 20 mA current loop interface	Temperature controller actual value (-10 to +80 °C = 4 - 20 mA)	V3						
Compressed air drying (efficient dehumidification of the interior by compressed air supply) - Standard factory calibration certificate (measuring point centre of usable space) for +10 °C with 10 % rh. (requires option P1 for sizes 260, 410 and 750 at an extra charge)		C9					-	
Door with lock and key (safety lock)	One lock	B6					-	
	Two locks (one each door)	-					B62	-
	Three locks (one each door)	-						B63
Potential-free contact for combination error message (e.g. supply failure, sensor fault, fuse)		H6						
Process-dependent programmable door lock	One	D4					-	
	Two (one each door)	-					D42	-
	Three (one each door)	-						D43

Standard equipment included in the standard scope of delivery. Prices for options are only valid when ordering new appliances.
Not all options/accessories are combinable with each other. Please contact us for individual combination requests.

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Options		110	260	410	750	1060	1400	2200
Door-open-recognition	One	V5					-	
	Two (one each door)	-					V52	-
	Three (one each door)	-						V53
MobileALERT, notification by SMS in case of any error or alarm of the device (requires option H6)		C3						
MobileALERT for 2 alarm notifications; notification by SMS. temperature and humidity alarm (requires option H6)		C4						
Castor frame (2-part), height 140 mm		R9	-					

Accessories	110	260	410	750	1060	1400	2200
Stainless steel grid, electropolished	E20165	E28891		E20182	B41251	B38955	
Reinforced stainless steel grid, electropolished, max. loading 60 kg; size 750 with guide bars and fixing screws (requires option K1). Please consider max. loading of chamber	E29767	E29766		B32190	B32550	-	
Stainless steel perforated sheet (may affect the temperature distribution). With option P1, the performance is increased for sizes 260, 410, and 750.	B00325	B29725		B00328	-		
Reinforced stainless steel shelf, max. loading 60 kg; with guide bars and fixing screws (requires option K1). Please consider max. loading of chamber. With option P1, the performance is increased for sizes 260, 410, and 750.	-			B32191	B32549	-	
Stainless steel slide-in drip tray, 15 mm rim, with guide bars and fixing screws (may affect the temperature distribution, requires option K1)	-			B32763	-		
Stainless steel slide-in drip tray, 15 mm rim (may affect the temperature distribution, not in connection with option K1 for sizes 450/750)	B02073	B29726		B02075	B32599	-	
Stainless steel bottom drip tray, 15 mm rim (may affect the temperature distribution, requires option K1)	-			B34055	-		
Stainless steel bottom drip tray, 15 mm rim (may affect the temperature distribution, not in connection with option K1 for sizes 450/750)	B04359	B29722		B04362	B29769	-	
Holder for water tank (sizes 110 - 750: 2.5 litres, sizes 1060/1400/2200: 10 litres) for mounting on the rear of the appliance. Standard equipment for sizes 410, 750, 1060, 1400 and 2200	B49092		-				
Central water supply with filter cartridges for connection to the domestic water supply. Product information on demand	ZWVR6						
Central water supply without filter cartridges for connection to the domestic water supply (only for demineralised water with a conductivity of 5 to 10 µS/cm and a pH value between 5 and 7). Product information on demand	ZWVR7						
Flush-fit unit (stainless steel frame covering gap between oven and wall opening), with air slots	B29734	B29738	B42116	B29742		-	
Flush-fit unit (stainless steel frame covering gap between oven and wall opening), without air slots	B29735	B29739	B42117	B29743		-	
Stacking set (4 pcs) for stacking of appliances of same size	B29744	-					
Set of height adjustable feet (4 pcs)	B29768		-				
Subframe, adjustable in height (height 500 mm)	B29749	B29751	-				
Subframe, on castors (height 560 mm)	B29750	-					
Subframe, adjustable in height, height 130 mm	B33661	B33664	-				
External measuring instrument with sensors for daylight and UV-light. Product information on demand	B04713					-	
External measuring instrument with additional measuring head for temperature and humidity measurement. Product information on demand	B04714						

Accessories	Software and Connectivity	110	260	410	750	1060	1400	2200
Basic license for „AtmoCONTROL FDA Edition". Meets the requirements for the use of electronically stored records and electronic signatures as specified in the 21 CFR Part 11 regulation by the US Food and Drug Administration (FDA). Respective IQ/OQ documents available in German and English (at no extra charge).	FDAQ1						
FDA integration license for an additional device (up to a maximum of 31 units) into an already purchased FDA basic license.	FDAQ2						
USB User-ID stick (with User-ID licence): Oven-linked authorisation licence (User-ID-programme) on Memory-stick, prevents undesired manipulation by unauthorised third parties. When reordering please specify serial number	B33170						
Ethernet connection cable 5 m for computer interface	E06189						
USB-Ethernet adapter	E06192						